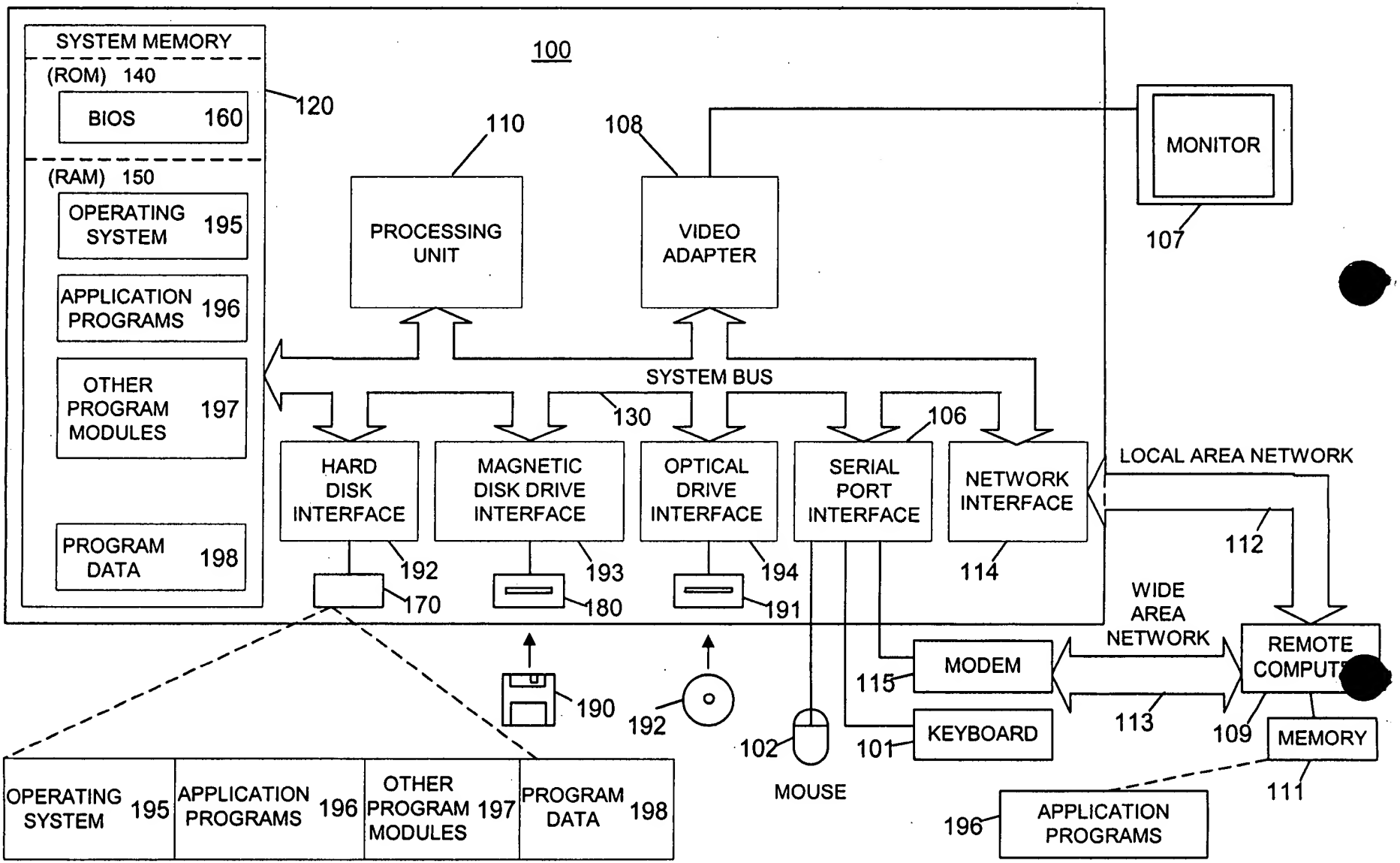
SYSTEM MEMORY
(ROM) 140
BIOS 160
120
(RAM) 150
OPERATING SYSTEM 195
APPLICATION PROGRAMS 196
OTHER PROGRAM MODULES 197
PROGRAM DATA 198
100
110
PROCESSING UNIT
108
VIDEO ADAPTER
MONITOR
107
SYSTEM BUS
130
106
HARD DISK INTERFACE
MAGNETIC DISK DRIVE INTERFACE
OPTICAL DRIVE INTERFACE
SERIAL PORT INTERFACE
NETWORK INTERFACE
LOCAL AREA NETWORK
112
192
193
194
114
170
180
191
WIDE AREA NETWORK
REMOTE COMPUTER
MODEM
115
190
192
102
101
KEYBOARD
113
109
MEMORY
MOUSE
111
196
APPLICATION PROGRAMS
OPERATING SYSTEM 195
APPLICATION PROGRAMS 196
OTHER PROGRAM MODULES 197
PROGRAM DATA 198

FIG. 1

Digital Image Evolution Example

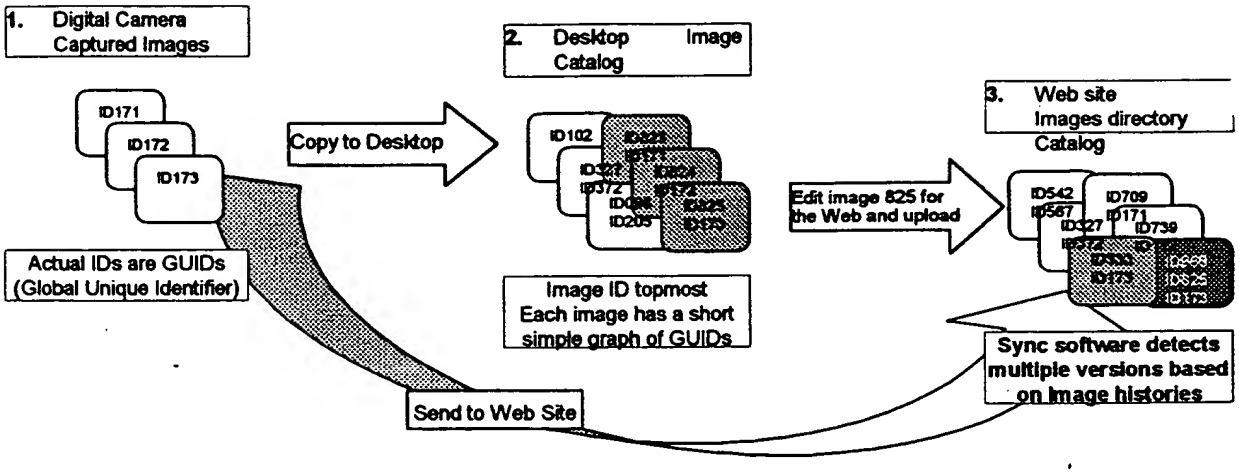

FIG. 2

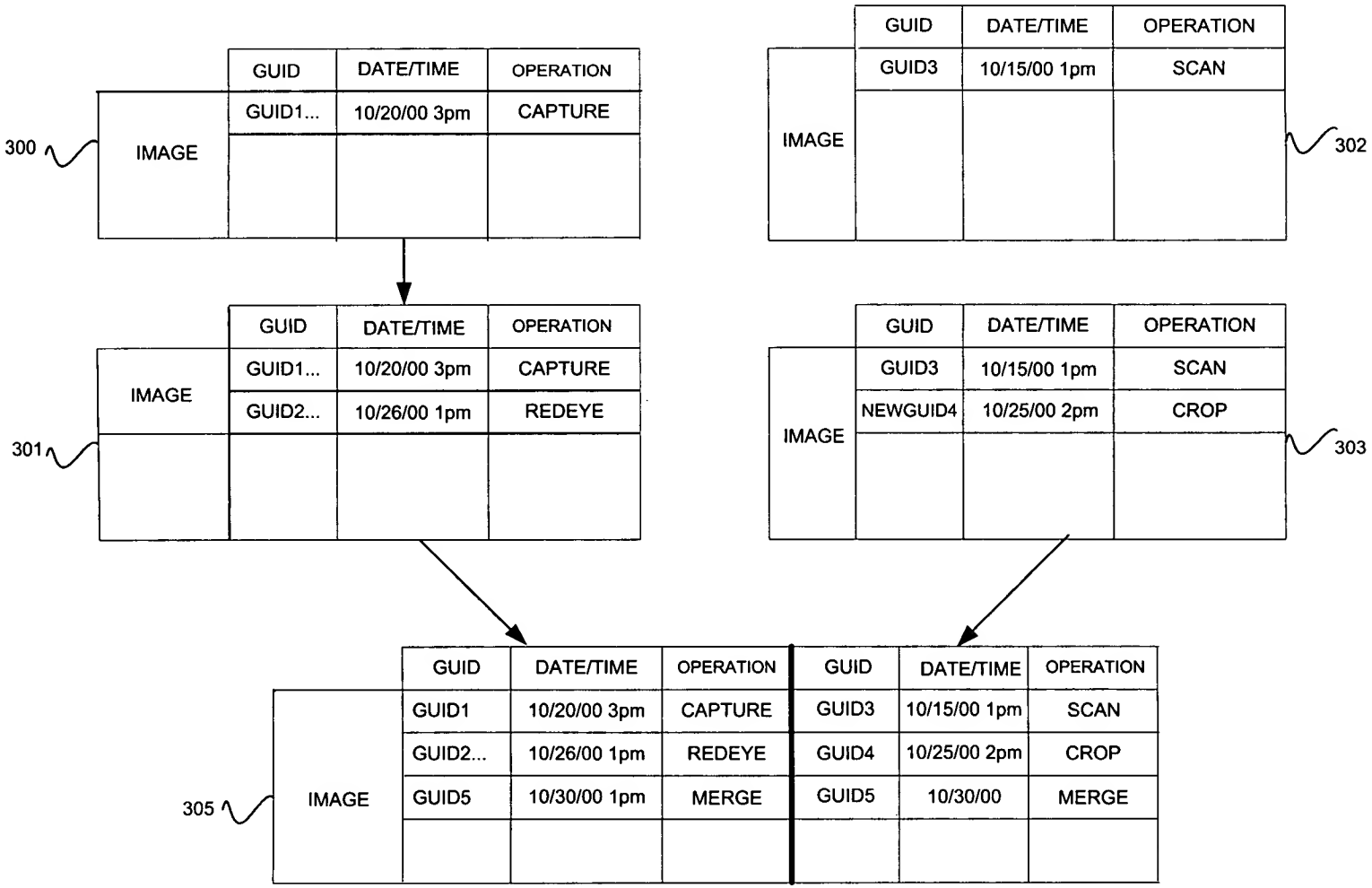
300
IMAGE
GUID
DATE/TIME
OPERATION
GUID1...
10/20/00 3pm
CAPTURE
302
IMAGE
GUID
DATE/TIME
OPERATION
GUID3
10/15/00 1pm
SCAN
301
IMAGE
GUID
DATE/TIME
OPERATION
GUID1...
10/20/00 3pm
CAPTURE
GUID2...
10/26/00 1pm
REDEYE
303
IMAGE
GUID
DATE/TIME
OPERATION
GUID3
10/15/00 1pm
SCAN
NEWGUID4
10/25/00 2pm
CROP
305
IMAGE
GUID
DATE/TIME
OPERATION
GUID
DATE/TIME
OPERATION
GUID1
10/20/00 3pm
CAPTURE
GUID3
10/15/00 1pm
SCAN
GUID2...
10/26/00 1pm
REDEYE
GUID4
10/25/00 2pm
CROP
GUID5
10/30/00 1pm
MERGE
GUID5
10/30/00
MERGE

FIG. 3

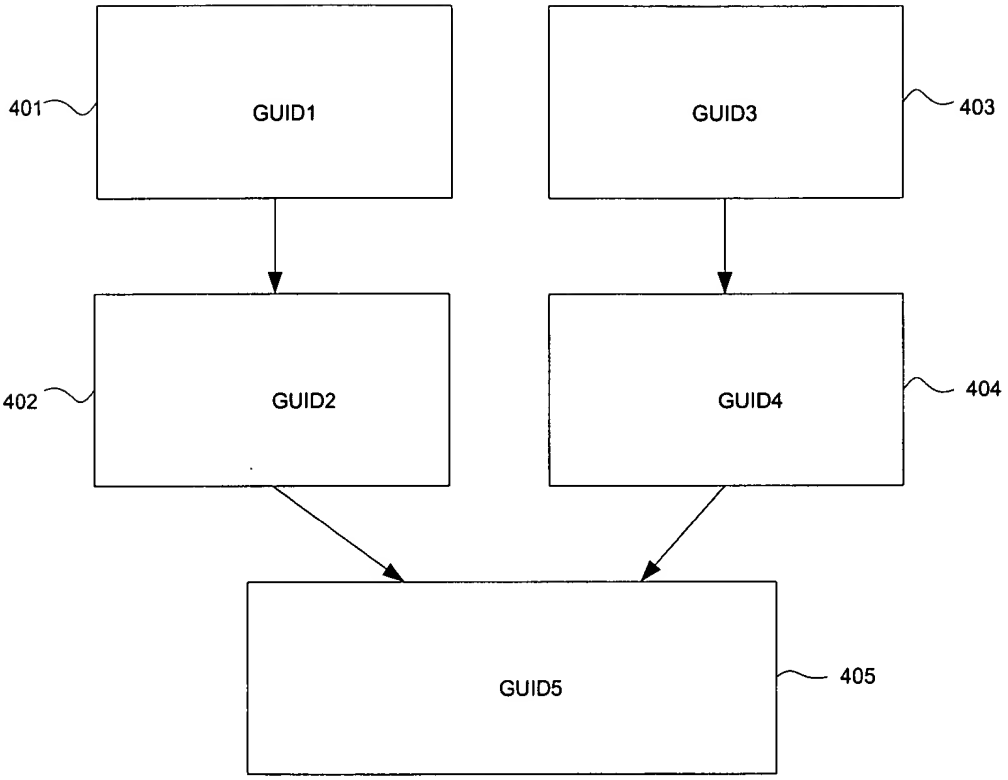

FIG. 4

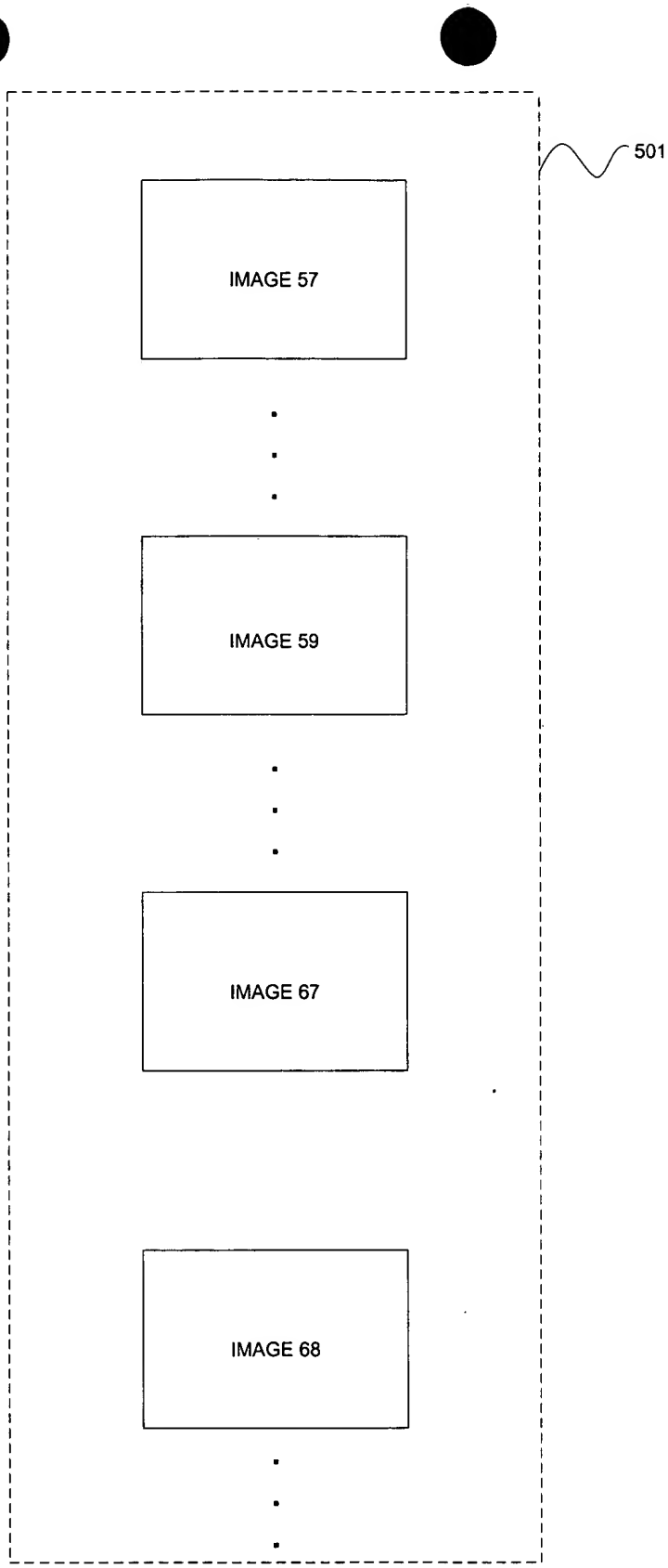

FIG. 5A

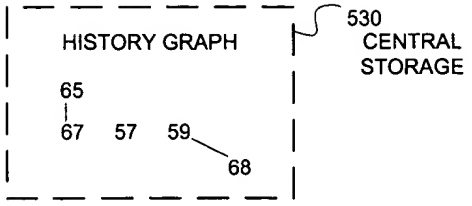

FIG. 5B

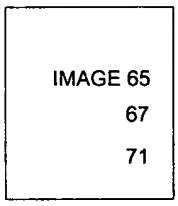

FIG. 5C

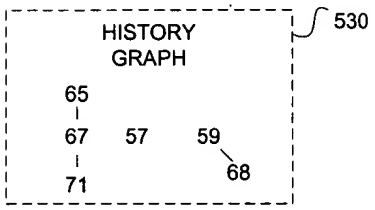

FIG. 5D

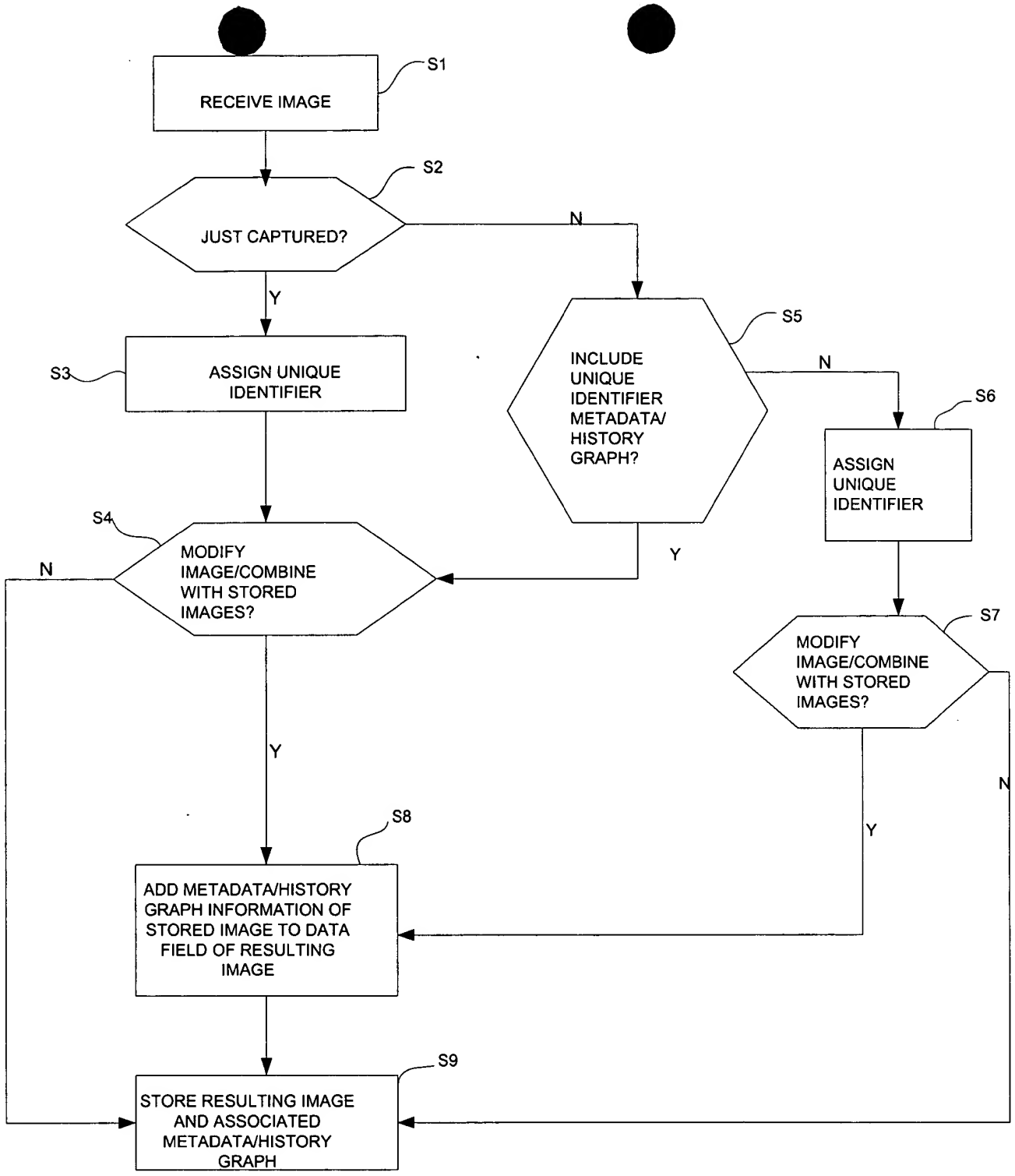
RECEIVE IMAGE
S1
JUST CAPTURED?
S2
N
Y
ASSIGN UNIQUE IDENTIFIER
S3
INCLUDE UNIQUE IDENTIFIER METADATA/ HISTORY GRAPH?
S5
N
Y
ASSIGN UNIQUE IDENTIFIER
S6
MODIFY IMAGE/COMBINE WITH STORED IMAGES?
S4
N
Y
MODIFY IMAGE/COMBINE WITH STORED IMAGES?
S7
N
Y
ADD METADATA/HISTORY GRAPH INFORMATION OF STORED IMAGE TO DATA FIELD OF RESULTING IMAGE
S8
STORE RESULTING IMAGE AND ASSOCIATED METADATA/HISTORY GRAPH
S9

FIG. 6

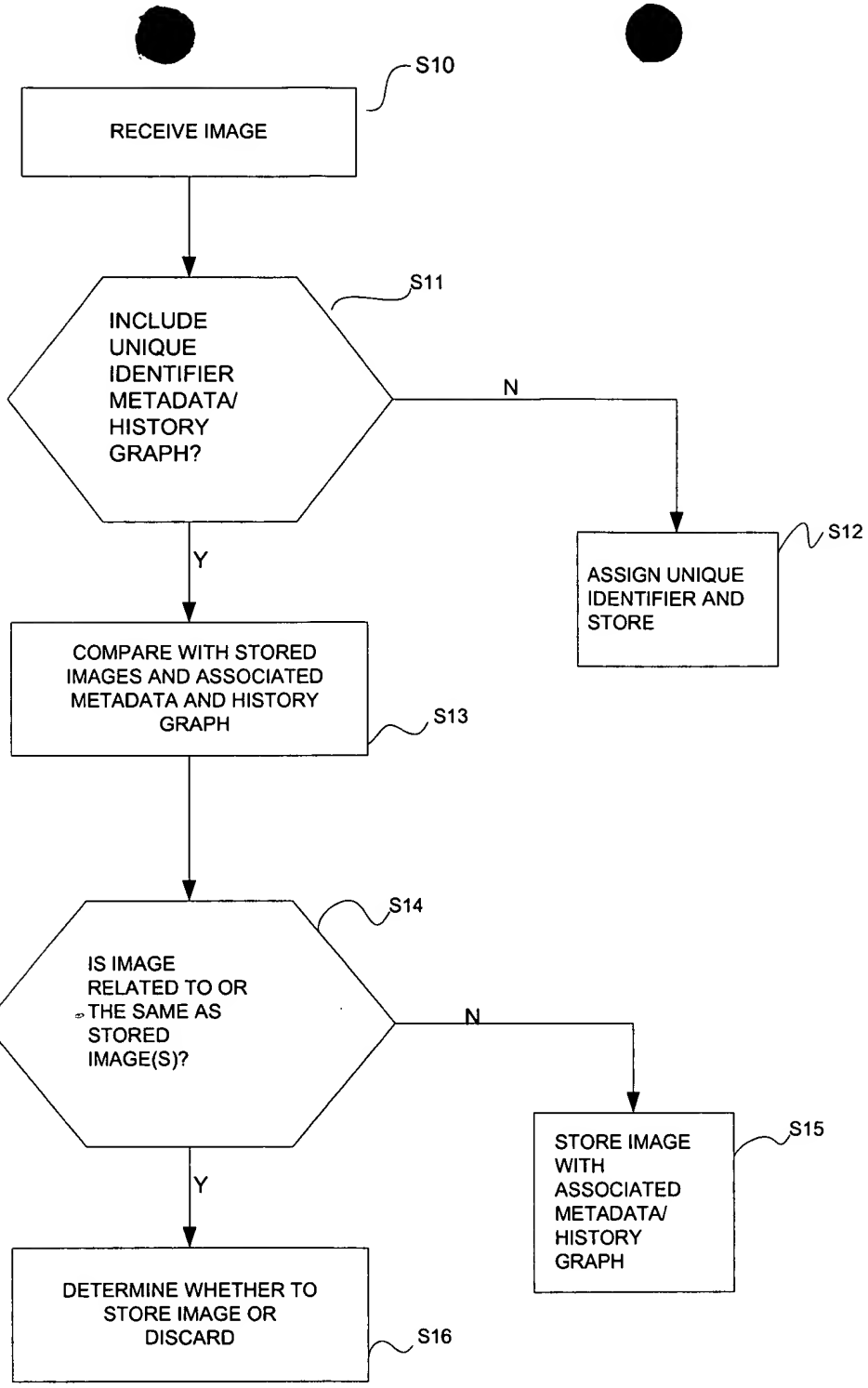
S10
RECEIVE IMAGE
S11
INCLUDE UNIQUE IDENTIFIER METADATA/ HISTORY GRAPH?
N
Y
S12
ASSIGN UNIQUE IDENTIFIER AND STORE
COMPARE WITH STORED IMAGES AND ASSOCIATED METADATA AND HISTORY GRAPH
S13
S14
IS IMAGE RELATED TO OR THE SAME AS STORED IMAGE(S)?
N
Y
S15
STORE IMAGE WITH ASSOCIATED METADATA/ HISTORY GRAPH
DETERMINE WHETHER TO STORE IMAGE OR DISCARD
S16

FIG. 7